Title (en)

SYNTHETIC HYPERGLYCOSYLATED, PROTEASE-RESISTANT POLYPEPTIDE VARIANTS, ORAL FORMULATIONS AND METHODS OF USING THE SAME

Title (de)

SYNTHETISCHE HYPERGLYCOSYLIERTE, PROTEASE-RESISTENTE POLYPEPTID-VARIANTEN, ORALE FORMULIERUNGEN UND ANWENDUNGSVERFAHREN DAFÜR

Title (fr)

VARIANTS DE POLYPEPTIDES SYNTHETIQUES HYPERGLYCOSYLES RESISTANTS A LA PROTEASE, FORMULATIONS ORALES ET LEURS PROCEDES D'UTILISATION

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Application

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Abstract (en)

[origin: WO2006020580A2] The present invention provides synthetic Type I interferon receptor polypeptide agonists comprising consensus or hybrid Type I interferon receptor polypeptide agonists, containing one or more native or non-native glycosylation sites. The present invention further provides oral formulations of protease-resistant or protease-resistant, hyperglycosylated polypeptide variants, which polypeptide variants lack at least one protease cleavage site found in a parent polypeptide, and thus exhibit increased protease resistance compared to the parent polypeptide, which polypeptide variants further include (1) a carbohydrate moiety covalently linked to at least one non-native glycosylation site not found in the parent protein therapeutic or (2) a carbohydrate moiety covalently linked to at least one native glycosylation site found but not glycosylated in the parent protein therapeutic. The present invention further provides compositions, including oral pharmaceutical compositions, comprising the synthetic Type I interferon receptor polypeptide agonist, the hyperglycosylated polypeptide variant, the protease-resistant polypeptide variant, or the hyperglycosylated, protease-resistant polypeptide variant. The present invention further provides containers, devices, and kits comprising the synthetic Type I interferon receptor polypeptide agonist, the hyperglycosylated polypeptide variant, the protease-resistant polypeptide variant, or the hyperglycosylated, protease-resistant polypeptide variant. The present invention further provides therapeutic methods involving administering an effective amount of an oral pharmaceutical composition comprising a synthetic Type I interferon receptor polypeptide agonist, a hyperglycosylated polypeptide variant, a protease-resistant polypeptide variant, or a hyperglycosylated, protease-resistant polypeptide variant to an individual in need thereof.

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